

产品名称: **LJH685**

产品别名: **LJH685**

生物活性:

Description	LJH685 is a potent, specific and selective RSK inhibitor, inhibits RSK1, 2, and 3 biochemical activities with IC50s of 6, 5, 4 nM, respectively[1].				
IC <sub>50</sub> & Target	IC50: 6 nM (RSK1), 5 nM (RSK1), 4 nM (RSK1)[1]				
In Vitro	LJH685 (0.01-100 μM; 72 hours) efficiently inhibits the growth of MDA-MB-231 and H358 cells in soft agar with EC50s of 0.73 and 0.79 μM, respectively[1].				
	LJH685 (0.1-10 μM; 4 hours) efficiently reduces phosphorylation of YB1 at submicromolar concentrations and causes nearly complete inhibition at higher concentrations[1].				
	Cell Proliferation Assay[1]				
	Cell Line:	MDA-MB-231, H358 cells			
	Concentration:	0.01, 0.1, 1, 10, 100 μM			
	Incubation Time:	72 hours			
	Result:	The growth in soft agar was efficiently inhibited with EC <sub>50</sub> values of 0.73 and 0.79 μM in MDA-MB-231 and H358, respectively.			
	Western Blot Analysis[1]				
	Cell Line:	MDA-MB-231, H358 cells			
	Concentration:	0.1, 0.3, 1, 3, 10 μM			
	Incubation Time:	4 hours			
Result:	Efficiently reduced phosphorylation of YB1 at submicromolar concentrations and caused nearly complete inhibition at higher concentrations.				
Solvent&Solubility	In Vitro:				
	DMSO : 10 mg/mL (26.22 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.6218 mL	13.1089 mL	26.2178 mL
		5 mM	0.5244 mL	2.6218 mL	5.2436 mL
		10 mM	0.2622 mL	1.3109 mL	2.6218 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。					
储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。					
References	[1]. Aronchik I, et al. Novel potent and selective inhibitors of p90 ribosomal S6 kinase reveal the heterogeneity of RSK function in MAPK-driven cancers. Mol Cancer Res. 2014 May;12(5):803-12.				
	[2]. Davies AH, et al. Inhibition of RSK with the novel small-molecule inhibitor LJ1308 overcomes chemoresistance by eliminating cancer stem cells. Oncotarget. 2015 Aug 21;6(24):20570-7.				
	[3]. Jain R, et al. Discovery of Potent and Selective RSK Inhibitors as Biological Probes. J Med Chem. 2015 Sep 10;58(17):6766-83.				